

WHAT IS CLAIMED IS:

1. An apparatus for delivering one or more features in a network environment, comprising:
an Internet protocol (IP) private branch exchange
5 (PBX) operable to receive a request from selected one of a communication device and a mobile station, the request being used to establish a communication session that implicates the mobile station, the IP PBX responding to the request by signaling to a cellular data network that
10 a call is being initiated that involves the mobile station, wherein the IP PBX is operable to exchange signaling information with a voice gateway after receiving the request such that one or more voice circuits are established by the voice gateway in order to
15 accommodate voice data that may propagate between the communication device and the mobile station, and wherein a signaling pathway is established between the IP PBX and the mobile station via the cellular data network in response to the request, the establishment of the
20 signaling pathway being substantially concurrent with the establishment of one or more of the voice circuits such that one or more features associated with a private network are delivered to the mobile station during the communication session.

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2. The apparatus of Claim 1, wherein the IP PBX and the communication device exchange signaling information associated with the communication session after the request is received by the IP PBX.

3. The apparatus of Claim 1, wherein the IP PBX communicates call-identification information to the mobile station after receiving the request from the communication device.

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4. The apparatus of Claim 1, wherein signaling information associated with one or more functions performed at the mobile station and involving one or more of the features associated with the private network are received by the IP PBX and processed therein during the communication session.

5. The apparatus of Claim 1, wherein the communication session is presented to an end user of the mobile station in a manner that is consistent with a display, which may be offered in the private network.

6. The apparatus of Claim 1, wherein the IP PBX is capable of identifying that the mobile station is equipped to accommodate one or more of the features associated with the private network and one or more of the features associated with the cellular data network.

7. The apparatus of Claim 1, wherein the one or more of the features associated with the private network are a selected one of a group of elements consisting of:

- a) a "hold" function;
- 5 b) a conference call function;
- c) a mute function;
- d) a voice mail function;
- e) a do not disturb function;
- f) a message alert function;
- 10 g) a three-way call function;
- h) a call forwarding function;
- i) a call waiting function; and
- j) a directory function.

8. An apparatus for delivering one or more features in a network environment, comprising:

a mobile station operable to conduct a communication session involving a communication device, an Internet
5 protocol (IP) private branch exchange (PBX) being operable to receive a request from a selected one of the communication device and the mobile station to establish the communication session, the IP PBX responding to the request by signaling to the mobile station via a cellular
10 data network that a call is being initiated that involves the mobile station, wherein the IP PBX is operable to exchange signaling information with a voice gateway after receiving the request such that one or more voice circuits are established by the voice gateway in order to
15 accommodate voice data that may propagate between the communication device and the mobile station, and wherein a signaling pathway is established between the IP PBX and the mobile station via the cellular data network in response to the request, the establishment of the
20 signaling pathway being substantially concurrent with the establishment of one or more of the voice circuits such that one or more features associated with a private network are delivered to the mobile station during the communication session.

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9. The apparatus of Claim 8, wherein the mobile station includes an operations/administration (OA) and management/policies (MP) element operable to provide provisioning applications for the mobile station, the
30 provisioning applications being associated with one or more policies provided to an end user of the mobile station.

10. The apparatus of Claim 8, wherein the mobile station includes a general module that is operable to provide a communicative platform from which one or more of the features associated with the private network are
5 delivered.

11. The apparatus of Claim 8, wherein signaling information associated with one or more functions performed at the mobile station and involving one or more
10 of the features associated with the private network are received by the IP PBX and processed therein during the communication session.

12. The apparatus of Claim 8, wherein the mobile
15 station includes a functions element operable to perform scanning and roaming functionalities for the mobile station.

13. The apparatus of Claim 12, wherein the
20 functions element is further operable to provide power management and wireless local area network (WLAN) operations for the mobile station.

14. The apparatus of Claim 12, wherein the mobile
25 station includes one or more virtual drivers operable to communicate with the functions element in order to facilitate a selected communications protocol being implemented in the communication session.

15. A method for delivering one or more features in a network environment, comprising:

receiving a request from a selected one of a communication device and a mobile station to establish a
5 communication session that involves the mobile station;

responding to the request by signaling to the mobile station via a cellular data network that a call is being initiated that involves the mobile station;

exchanging signaling information with a voice
10 gateway after receiving the request such that one or more voice circuits are established by the voice gateway in order to accommodate voice data that may propagate between the communication device and the mobile station; and

15 establishing a signaling pathway between an Internet protocol (IP) private branch exchange (PBX) and the mobile station via the cellular data network in response to the request, wherein the establishment of the signaling pathway is substantially concurrent with the
20 establishment of one or more of the voice circuits such that one or more features associated with a private network are delivered to the mobile station during the communication session.

25 16. The method of Claim 15, further comprising:

exchanging signaling information between the IP PBX and the communication device after the request is received by the IP PBX.

17. The method of Claim 15, further comprising:

communicating call-identification information to the mobile station via the cellular data network after the request from the communication device is received.

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18. The method of Claim 15, further comprising:

processing signaling information associated with one or more functions performed at the mobile station and involving one or more of the features associated with the private network at the IP PBX during the communication session.

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19. The method of Claim 15, further comprising:

presenting the communication session to an end user of the mobile station in a manner that is consistent with a display which may be offered in the private network.

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20. The method of Claim 15, further comprising:

identifying that the mobile station is equipped to accommodate one or more of the features associated with the private network and one or more of the features associated with the cellular data network after the request is received.

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21. A system for delivering one or more features in a network environment, comprising:

means for receiving a request from selected one of a communication device and a mobile station to establish a
5 communication session associated with the mobile station;

means for responding to the request by signaling to the mobile station via a cellular data network that a call is being initiated that involves the mobile station;

means for exchanging signaling information with a
10 voice gateway after receiving the request such that one or more voice circuits are established by the voice gateway in order to accommodate voice data that may propagate between the communication device and the mobile station; and

15 means for establishing a signaling pathway coupled to the cellular data network in response to the request, wherein the establishment of the signaling pathway is substantially concurrent with the establishment of one or more of the voice circuits such that one or more features
20 associated with a private network are delivered to the mobile station during the communication session.

22. The system of Claim 21, further comprising:

means for exchanging signaling information via the
25 communication device after the request is received.

23. The system of Claim 21, further comprising:

means for communicating call-identification information to the mobile station via the cellular data
30 network after the request from the communication device is received.

24. The system of Claim 21, further comprising:
means for processing signaling information
associated with one or more functions performed at the
mobile station and involving one or more of the features
5 associated with the private network during the
communication session.

25. The system of Claim 21, further comprising:
means for presenting the communication session to an
10 end user of the mobile station in a manner that is
consistent with a display which may be offered in the
private network.

26. The system of Claim 21, further comprising:
15 means for identifying that the mobile station is
equipped to accommodate one or more of the features
associated with the private network and one or more of
the features associated with the cellular data network
after the request is received.

27. Software for delivering one or more features in a network environment, the software being embodied in a computer readable medium and comprising computer code such that when executed is operable to:

- 5 receive a request from a selected one of a communication device and a mobile station to establish a communication session that involves the mobile station;
- respond to the request by signaling to the mobile station via a cellular data network that a call is being
- 10 initiated that involves the mobile station;
- exchange signaling information with a voice gateway after receiving the request such that one or more voice circuits are established by the voice gateway in order to accommodate voice data that may propagate between the
- 15 communication device and the mobile station; and
- establish a signaling pathway via the cellular data network in response to the request, wherein the establishment of the signaling pathway is substantially concurrent with the establishment of one or more of the
- 20 voice circuits such that one or more features associated with a private network are delivered to the mobile station during the communication session.

28. The medium of Claim 27, wherein the code is
25 further operable to:

- exchange signaling information via the communication device after the request is received.

29. The medium of Claim 27, wherein the code is further operable to:

communicate call-identification information to the mobile station via the cellular data network after the
5 request from the communication device is received.

30. The medium of Claim 27, wherein the code is further operable to:

process signaling information associated with one or
10 more functions performed at the mobile station and involving one or more of the features associated with the private network during the communication session.

31. The medium of Claim 27, wherein the code is
15 further operable to:

present the communication session to an end user of the mobile station in a manner that is consistent with a display which may be offered in the private network.

20 32. The medium of Claim 27, wherein the code is further operable to:

identify that the mobile station is equipped to accommodate one or more of the features associated with the private network and one or more of the features
25 associated with the cellular data network after the request is received.